## **AMENDMENTS TO THE CLAIMS**

1. (Currently Amended) An apparatus for identifying a position of marked objects and

detecting a property of the marked objects contained in a specimen, the apparatus comprising

a frame,

a member positioned on the frame and having a surface that is adapted to receive and

hold the specimen,

at least a first light source for emitting at least a first light beam towards the specimen

held by the member,

at least a detector for detecting a light emitted from the marked objects upon interaction

with the first light beam, the first light source and the detector being arranged so that a part of a

light beam path from the first light source to the specimen is co-axial with a part of the light

emitted from the marked objects,

scanning means for scanning the specimen in relation to the detector along a non-linear

curve, wherein the scanning means comprises means for rotating the member and means for

displacing the member along a radius of the rotation of the member, so as to identify the position

of the marked objects and detect the property of the marked objects in the entire specimen, the

means for rotating and the means for displacing being directly connected to the member, the

member being rotatable and displaceable along a radius of the rotation of the member,

scanning control means for controlling the scanning means for scanning the specimen

along the non-linear curve,

storage means for storing detector signals relating to the marked objects provided by the

detector and corresponding position signals provided by the scanning control means,

Application No. 09/806,457 Docket No.: 2836-0153PUS1

Amendment dated July 6, 2006

Reply to Office Action of February 6, 200

Reply to Office Action of February 6, 2006 Page 3 of 23

means for retrieving the position signals stored in the storage means, and

a microscope for viewing or recording images of the marked objects,

wherein the scanning control means using the retrieved position signals to place the

microscope at the position of the marked objects to allow a user to view the images of the

marked objects via the microscope performing a detailed examination of the marked objects.

2-6. (Cancelled)

7. (Previously Presented) An apparatus according to claim 1, wherein the member is

positioned for rotation about an axis on the frame and wherein the means for rotating the member

rotates the member about the axis.

8. (Cancelled)

9. (Previously Presented) An apparatus according to claim 1, wherein the scanning

control means are adapted to control the scanning means in such a way that the non-linear curve

is a substantially circular curve.

10. (Cancelled)

11. (Currently Amended) An apparatus according to claim 101, further comprising means

for sampling and digitising the detector signals and the position signals.

Birch, Stewart, Kolasch & Birch, LLP KM/GH/CI

Application No. 09/806,457 Amendment dated July 6, 2006

Reply to Office Action of February 6, 2006

Docket No.: 2836-0153PUS1

Page 4 of 23

12. (Previously Presented) An apparatus according to claim 1, further comprising signal

processing means operatively connected to the detector to detect a presence of an object based on

the detector signals.

13-14. (Cancelled)

15. (Previously Presented) An apparatus according to claim 1, wherein the specimen has

an area larger than 500 mm<sup>2</sup>.

16. (Previously Presented) An apparatus according to claim 1, wherein the specimen has

an area larger than 8000 mm<sup>2</sup>.

17-22. (Cancelled)

23. (Previously Presented) An apparatus according to claim 1, wherein a mask is inserted

in an optical path between the specimen and the detector, and

the mask comprises at least one transparent aperture.

24. (Previously Presented) An apparatus according to claim 23, wherein the aperture

shape is a substantially rectangular shape.

Application No. 09/806,457 Docket No.: 2836-0153PUS1

Amendment dated July 6, 2006 Reply to Office Action of February 6, 2006

Page 5 of 23

25. (Previously Presented) An apparatus according to claim 23, wherein at least one

dimension of the aperture, as projected on the specimen, is between 0.75 and 2 times the

dimensions of objects to be detected.

26. (Cancelled)

27. (Previously Presented) An apparatus according to claim 1, wherein the first light

source is a coherent light source.

28. (Previously Presented) An apparatus according to claim 1, wherein the first light

beam is adapted to provide a light spot having a diameter between 20-150µm on the specimen.

29. (Currently Amended) A method of identifying a position of an object and detecting a

property of an the object contained in a specimen and comprising the steps of:

positioning the specimen on a member having a surface that is adapted to receive and

hold the specimen,

emitting at least a first light beam from a first light source towards the specimen held by

the member,

scanning the specimen in relation to a detector along a non-linear curve by rotating the

member holding the specimen and displacing the member along a radius of the rotation of the

member, the member being rotatable and displaceable along a radius of the rotation of the

member,

Docket No.: 2836-0153PUS1

Application No. 09/806,457 Amendment dated July 6, 2006

Reply to Office Action of February 6, 2006

Page 6 of 23

arranging the light source and the detector, so that a part of a light beam path from the

first light source to the specimen is co-axial with a part of a light emitted from the object,

detecting the light emitted from the object, thereby identifying the position of the object

and detecting a-the property of the object during scanning of the specimen,

storing detector signals relating to the object provided by the detector and corresponding

position signals provided by the scanning control means,

retrieving the position signals stored in the storage means,

placing a microscope at the position of the object using the retrieved the position signals

to allow performing a detailed examination of the object, and

optically inspecting the object by viewing an image of the object via the microscope by a

user.

30-35. (Cancelled)

36. (Previously Presented) A method according to claim 29, further comprising the step

of storing signals relating to the detected property and corresponding data relating to the current

position of the member.

37. (Previously Presented) A method according to claim 36, further comprising the step

of sampling and digitising the signals and the data.

38. (Cancelled)

KM/GH/cl

Docket No.: 2836-0153PUS1

Page 7 of 23

39. (Cancelled)

40. (Previously Presented) An apparatus according to claim 1, wherein the marked

objects are marked with a fluorescent stain.

41-43. (Cancelled)

44. (Previously Presented) An apparatus according to claim 1, wherein the detector

comprises a CCD device.

45. (Previously Presented) An apparatus according to claim 40, wherein the fluorescent

stain is Fluorescein.

46. (Cancelled)

47. (Previously Presented) A method according to claim 29, further comprising

establishing identity of the object by viewing the image of the object.

48. (Previously Presented) An apparatus according to claim 1, wherein the position

signals of the marked objects are angular and radial coordinates.

Application No. 09/806,457 Amendment dated July 6, 2006 Reply to Office Action of February 6, 2006 Docket No.: 2836-0153PUS1

Page 8 of 23

49. (Previously Presented) A method according to claim 29, wherein the step of storing the corresponding position signals includes storing angular and radial coordinates of the object provided by the scanning control means.

KM/GH/cl